

Title (en)

Process for producing particle-reinforced titanium alloy

Title (de)

Verfahren zur Herstellung einer durch Partikel verstärkten Titanlegierung

Title (fr)

Procédé de production d' un alliage de titane renforcé par des particules

Publication

EP 0997544 B1 20030521 (EN)

Application

EP 99121477 A 19991028

Priority

JP 30892198 A 19981029

Abstract (en)

[origin: EP0997544A1] A process for producing a particle-reinforced titanium alloy includes the steps of: heating a titanium alloy in which ceramic particles having a thermodynamically stable property are dispersed in a temperature range of not less than beta -transus temperature; and cooling the titanium alloy to pass through the beta -transus temperature at a cooling rate of 0.1-30 DEG C /second. The process can further include, before the heating step, the step of compressing the titanium alloy in a two phase temperature range of alpha + beta thereof or in a temperature range of not less than beta -transus temperature.

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C22C 14/00; C22C 32/00; C22C 1/10

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

EP1657011A1; CN104195361A; EP1657317A1; EP3507388A4; US10100386B2; US7410610B2; US7842231B2; US8562714B2; US10604452B2; US7531021B2

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